The Access Grid: A Cognitive-Performance Point of View

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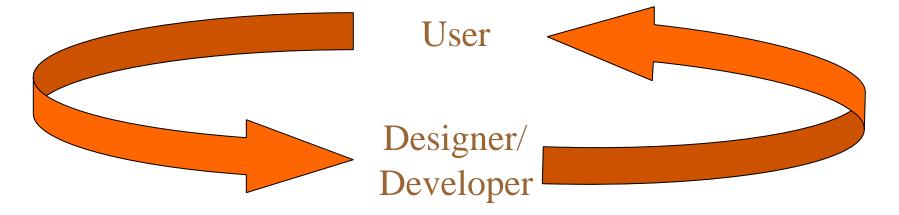
This Presentation Includes

- □ Developer vs. User Characteristics
- △ Listening to Users
- △An End User's Perspective
- □ Ultimate Human Factors Question
- △ A Simple Experiment
- △ About the Great Plains Network
- □ GPN Spring Member Meeting: "Networking Tools and Resources for Collaboration"



Human Factors implies...

XA feedback loop



This means that the designer is *listening* to the user!

But, developers are not always good at this.

Typical Characteristics of Developers vs. Users

Developers

- Visionary
 - see beyond the horizon
- Idealistic
 - look at what should be
 - "It's a collaborative tool!"
- Project Sophisticated
 - know the technology
- Ego-Involved in the Project
 - The project is a reflection of talents, desires ...

Users

- Immediate
 - looking to solve a specific problem
- Practical
 - look at what is
 - Let's put SC2001 on the Grid
- Project Naïve
 - often don't understand or care
- Ego-Involved in a Solution
 - The pure user cares about a successful implementation to meet immediate needs

Listening to Users... Monaco's Rule

If no one says "This sucks!" you are probably asking the wrong people for feedback.

Developers often get feedback from

- people who are nearby
- people who agree with them
- people who aren't naïve to the goals of the project
- other developers

It takes work to find a representative sample of users.

End User's Perspective

- #What exactly is an Access Grid Node?

 - □ There are folks confusing the AG with the Computational Grid (maybe that's intended)
- **#** Who are the *users*?
 - Some act as though the technical folks (operators) are the end users
- ₩Why not H.323?

Human Factors II

Some exposures-configurations-experiences with the Access Grid are more compelling than others

What makes some experiences "better" than others?

A Simple Experiment

#Independent Variables:

- △Audio Quality
- □ Delivery Mechanism (AG node, Polycom Viewstation, live)

#Dependent Variables

- Number of Transactions (verbal exchanges)

About the Great Plains Network

- # Advanced Networking Services & Collaborative Research Support
 - a consortium of 14 universities

 - potential Access Grid testbed
- # GPN Research Collaboration Pages

http://research.greatplains.net

Current News * Meetings * Research Projects

Funding Opportunities * Awards

Research Tools and Techniques

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next: GPN Spring Member Meeting

Spring Member Meeting

Networking Tools and Resources for Collaboration

April 19-20, 2001 University of Missouri, Kansas City Kansas City, Missouri

Audience: Researchers, IT-research liaisons, educators, and those who support the research and education mission via advanced networking technologies.

Check out the web site for more information!